BLACK BEAUTY®

THE LATEST BLACK BEAUTY ABRASIVES INNOVATION

SURE CUT VELOCITY

KEY CHARACTERISTICS

USER ENVIRONMENT

MATERIAL DEVELOPED TO THE HIGHEST STANDARDS OF HEALTH AND SAFETY FOR THE USER

PRODUCT OFFERINGS

AVAILABLE IN A VARIETY OF GRADES AND PACKAGING TYPES

PERFORMANCE

- HIGH PRODUCTIVITY AND CLEANING RATE
- LOW CONSUMPTION RATE
- LOW DUST
- HIGH SURFACE QUALITY
- COMPETITIVE COST PER SQFT

MATERIAL COMPOSITION

COMPOSED MAINLY OF SILICON DIOXIDE, MAGNESIUM OXIDE, IRON OXIDE AND OTHER COMPONENTS. NO LEACHABLE METALS.

TARGET APPLICATIONS

- NEW STEEL
- HEAVY RUST & MEDIUM THICKNESS COATINGS
- POWDER COATINGS
- SHIPBUILDING/MARINE OPERATIONS
- PIPELINE – NEW & MAINTENANCE
- BRIDGE CONSTRUCTION/REPAIR
- PUBLIC UTILITIES
- WATER/WASTEWATER STRUCTURES
- DUSTLESS BLASTING

SURE/CUT VELOCITY™ HIGHLIGHTS

Full Chemical Composition

- Iron Oxide: 30-35%
- Silica, fused: 15-20%
- Magnesium Oxide: 5-10%
- Aluminum Oxide: 5-10%
- Manganese Oxide: 5-10%
- Chromium (III) Oxide: <2%
- Titanium Oxide: <1.0%

Other Elements – Trace if Present

No Leachable Metals/TCLP

Less than 0.1% free silica

Environmentally friendly

Superior cleaning rate

Overall value ($/sf)

Certi ied SSPC AB-1

Product Availability: Fine, Extra-Fine

Product Packaging:

50 lbs bags, 3000 lbs bulk bags, bulk

Production: Pekin, IL

Pro iles (mil)

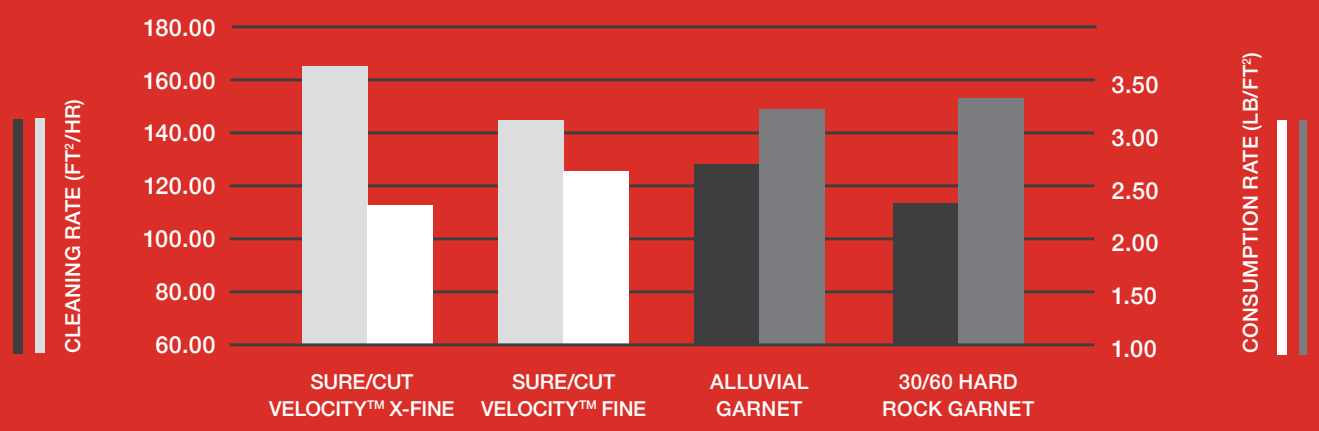
- Fine: 3.0 – 4.25 mil
- Extra-Fine: to 2.0 – 3.25 mil

Physical Properties

- Color: Light grey
- Shape: Angular/ Sub-Angular
- Hardness: 7-8 Moh's
- Bulk Density: 105-120 lbs/ft^3
- Silica Content: < 0.1% free silica

SDS/chemical composition available upon request

SURE/CUT VELOCITY™ PERFORMANCE TESTING



PRODUCT GRADE	CLEANING RATE AVG (FT^2/HR)	CONSUMPTION RATE (LBS/FT^2)
SURE/CUT VELOCITY™ X-FINE	162.40	2.41
SURE/CUT VELOCITY™ FINE	143.04	2.62
ALLUVIAL GARNET	127.89	3.21
30/60 HARD ROCK GARNET	118.52	3.31

SURE/CUT: CUTTING… PERFORMANCE

TRY OUR NEW MATERIAL AND SEE FOR YOURSELF!

Harsco Environmental

717-506-2068 | reedcs@harsco.com

A high quality abrasive from a company you can trust.

HARSCO ENVIRONMENTAL

FAQS

WHAT IS THIS PRODUCT?
Calcium-Iron Silicate/High performance abrasive media.

WHAT IS THE SOURCE OF THIS MATERIAL?
US based carbon steel making.

IS IT SAFE?
Yes, the material is compliant with EPA regulations and passes TCLP for leachability.

DOES IT CONTAIN BERYLLIUM?
Beryllium is a naturally occurring element found in a wide variety of substrates including many abrasive products on the market today. The amount of Beryllium in SURE/CUT VELOCITY™ falls below the OSHA threshold for weight percentage in bulk form and contains similar trace amounts of Beryllium to other commonly used abrasive media e.g., crushed glass and garnet.

IS IT SILICA FREE?
SURE/CUT VELOCITY™ is a low free silica product that has been tested and contains < 0.1% crystalline silica by weight.

IS IT METALLIC?
SURE/CUT VELOCITY™ is not metallic.

DOES IT CAUSE RUSTING?
No. Rust occurs naturally on ferrous metals such as steel and can develop very quickly (Flash Rust) on freshly blasted surfaces that are exposed to moisture. SURE/CUT VELOCITY™ does not affect this process.

DOES THE PRODUCT LEAVE RESIDUAL PARTICLES ON THE SUBSTRATE POST-BLAST?
No, however as with any other abrasive media there is an unlikely chance for residual embedment.

CAN THE PRODUCT BE REUSED?
The product has shown break down characteristics on impact similar to other reusable abrasive media. Additional research is being conducted to determine potential number of recycles.

WHEN WILL SURE/CUT VELOCITY BE QPL APPROVED?
The product is currently being tested for California Air Resources Board (CARB) and once completed will be submitted for QPL-22262 approval.

HOW DOES DUST LEVEL COMPARE TO GARNET?
SURE/CUT VELOCITY™ has a similar dust generation level to hard rock garnet and lower dust generation than other abrasives such as crushed glass, coal slag, copper slag, and silica sand.

WHAT IS THE SOLUBLE SALT LEVEL?
SURE/CUT VELOCITY™ has a soluble salt (chlorides) level of less than 10 ppm.

I NOTICED A SLIGHTLY DARKER COLOR ON THE SUBSTRATE POST-BLAST. WILL THIS NEGATIVELY AFFECT COATING ADHESION?
The color on the substrate with this abrasive will not negatively affect coding adhesion and meets and/or exceeds a SP10 surface appearance.

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